

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101420\
 Data File : VN064119.D
 Acq On : 14 Oct 2020 18:08
 Operator : JC/MD
 Sample : VN1014WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1014WBL01

Quant Time: Oct 15 05:56:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101420W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 15 01:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	302066	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	566750	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	585362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	218102	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	227270	52.83	ug/l	0.00
Spiked Amount			Recovery	=	105.66%	
35) Dibromofluoromethane	7.55	113	190912	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	10.06	98	726975	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	12.38	95	255400	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	

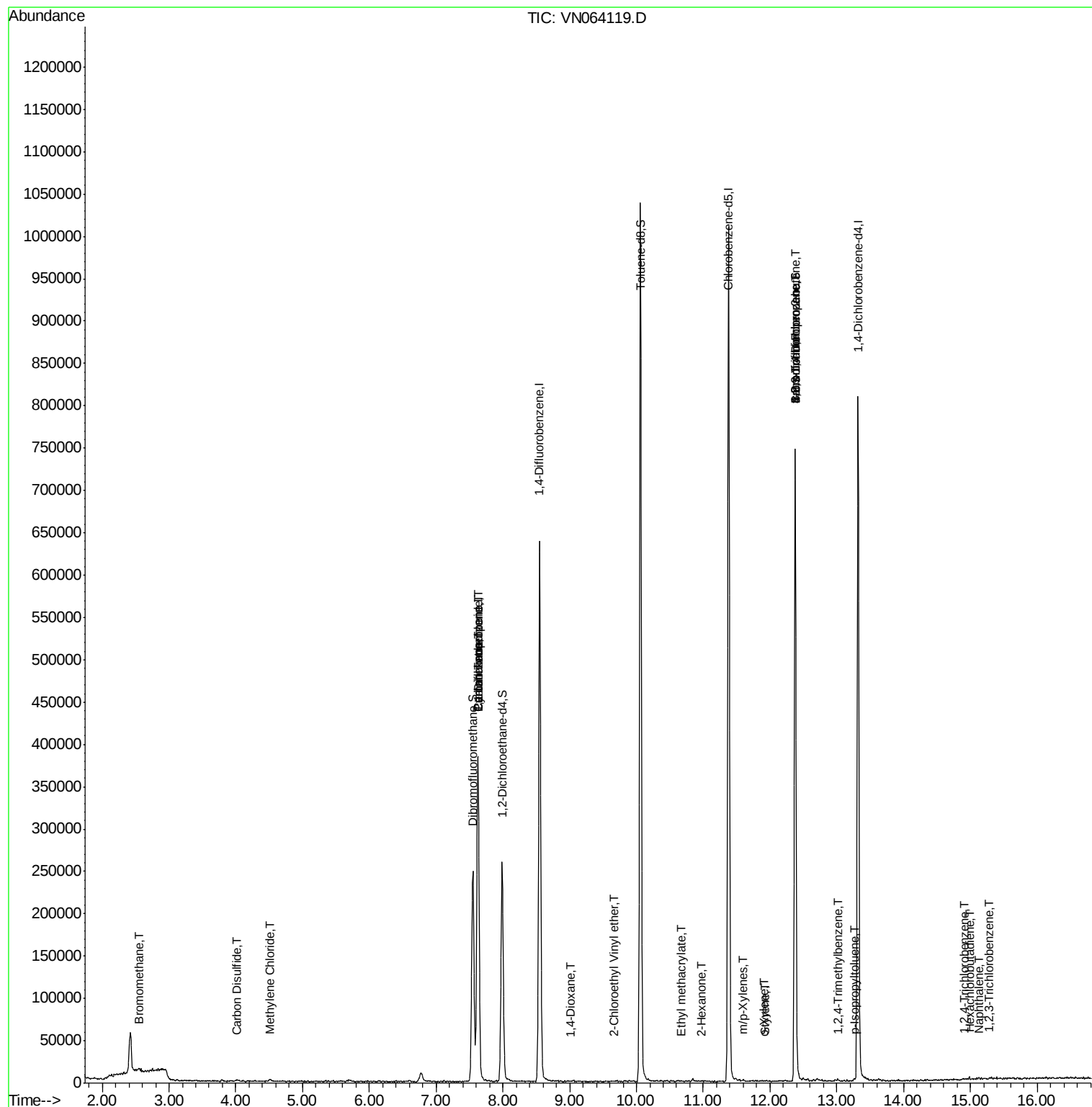
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	1501	0.453	ug/l #	71
17) Carbon Disulfide	4.02	76	2294	0.267	ug/l #	68
20) Methylene Chloride	4.51	84	1164	0.295	ug/l #	92
31) Cyclohexane	7.63	56	7084	1.490	ug/l #	8
36) 1,1-Dichloropropene	7.62	75	23827	4.362	ug/l #	51
38) Carbon Tetrachloride	7.62	117	32312	5.501	ug/l #	16
49) 1,4-Dioxane	9.02	88	29	0.514	ug/l #	1
56) Ethyl methacrylate	10.68	69	107	2.315	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.66	63	143	12.263	ug/l #	48
59) 2-Hexanone	10.97	43	331	6.925	ug/l	66
68) m/p-Xylenes	11.60	106	630	2.264	ug/l	97
69) o-Xylene	11.92	106	33	1.587	ug/l #	1
70) Styrene	11.94	104	520	2.072	ug/l #	56
71) Bromoform	12.38	173	2270	2.790	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	132435	25.882	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	132435	79.075	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.01	105	540	0.225	ug/l	90
86) p-Isopropyltoluene	13.26	119	905	0.732	ug/l #	58
93) 1,2,4-Trichlorobenzene	14.89	180	293	3.259	ug/l #	83
94) Hexachlorobutadiene	14.98	225	496	0.293	ug/l	89
95) Naphthalene	15.13	128	1776	3.951	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.28	180	523	2.952	ug/l #	80

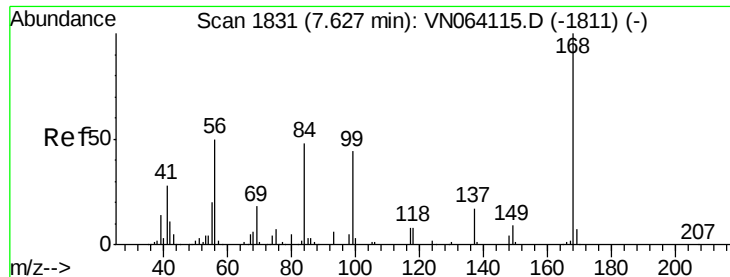
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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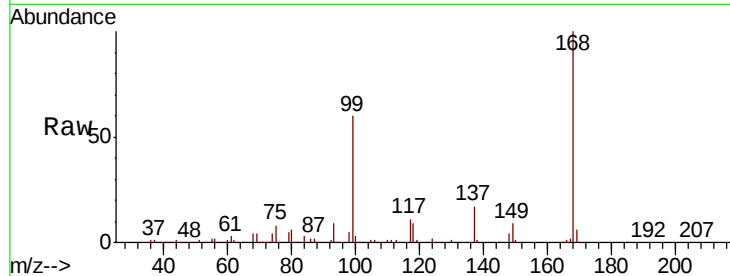




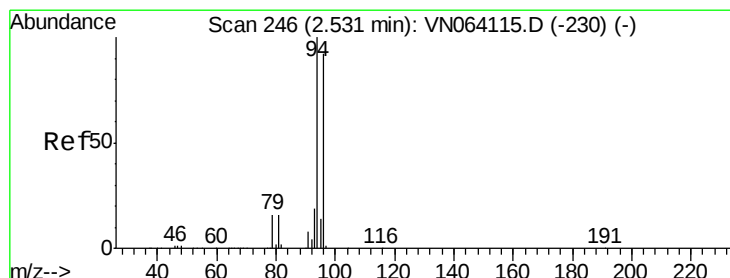
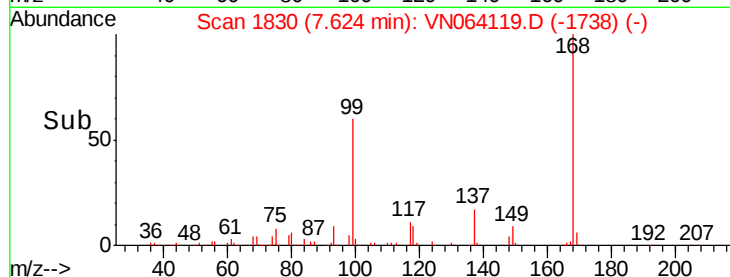
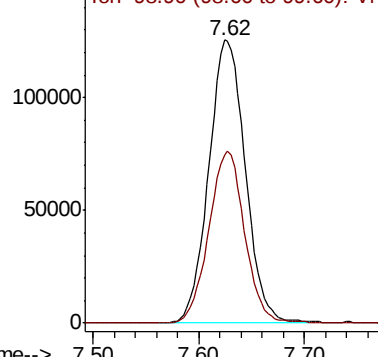
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.00 min
Lab File: VN064119.D
Acq: 14 Oct 2020 18:08

Instrument :
MSVOA_N
ClientSampleId :
VN1014WBL01

Tot Ion:168 Resp: 302066
Ion Ratio Lower Upper
168 100
99 59.6 43.6 65.4

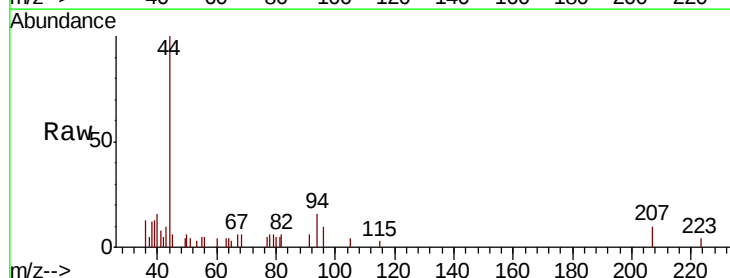


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN

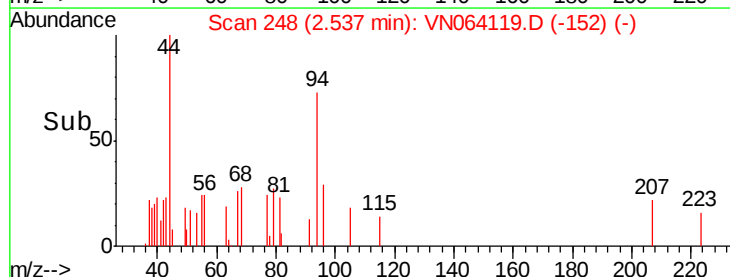
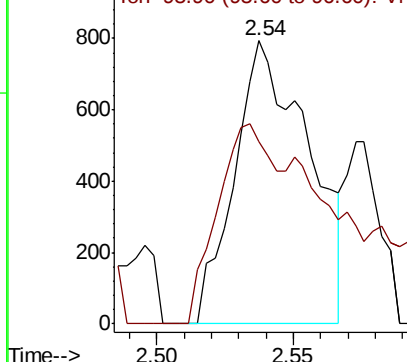


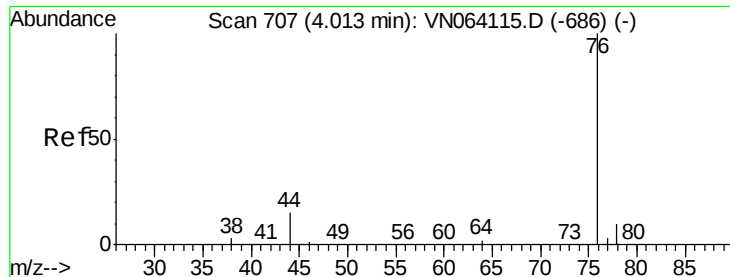
#5
Bromomethane
Concen: 0.453 ug/l
RT: 2.54 min Scan# 248
Delta R.T. 0.01 min
Lab File: VN064119.D
Acq: 14 Oct 2020 18:08

Tgt Ion: 94 Resp: 1501
Ion Ratio Lower Upper
94 100
96 64.6 73.5 110.3#



Abundance Ion 93.90 (93.60 to 94.60): VN
Ion 95.90 (95.60 to 96.60): VN





#17

Carbon Disulfide

Concen: 0.267 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN064119.D

Acq: 14 Oct 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

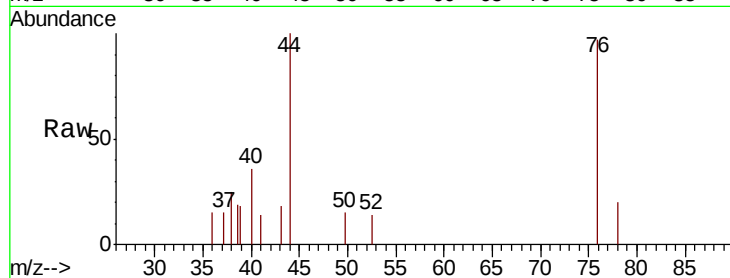
VN1014WBL01

Tot Ion: 76 Resp: 2294

Ion Ratio Lower Upper

76 100

78 21.1 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.02

1200

1000

800

600

400

200

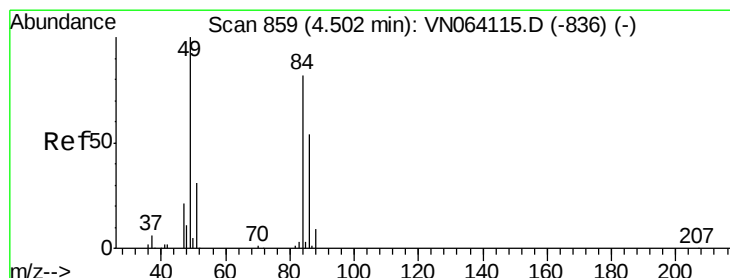
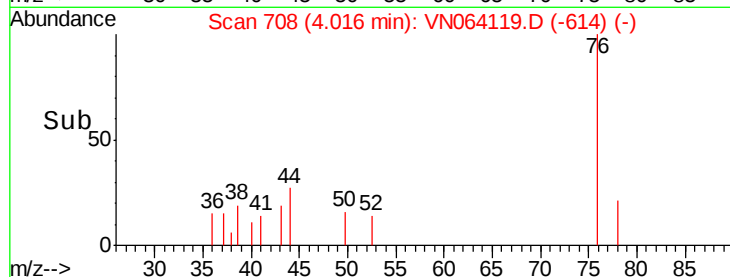
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Time-->

3.95

4.00

4.05



#20

Methylene Chloride

Concen: 0.295 ug/l

RT: 4.51 min Scan# 863

Delta R.T. 0.01 min

Lab File: VN064119.D

Acq: 14 Oct 2020 18:08

Tgt Ion: 84 Resp: 1164

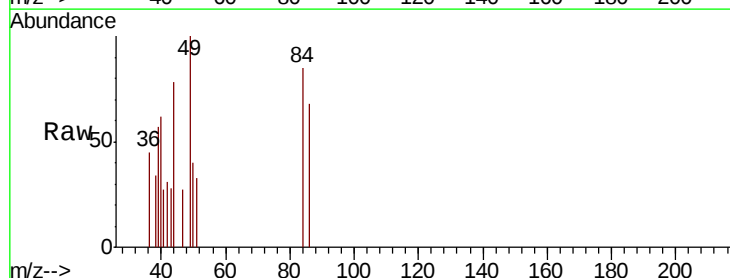
Ion Ratio Lower Upper

84 100

49 117.0 97.4 146.0

51 38.1 29.7 44.5

86 79.6 52.5 78.7#



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

1000

800

600

400

200

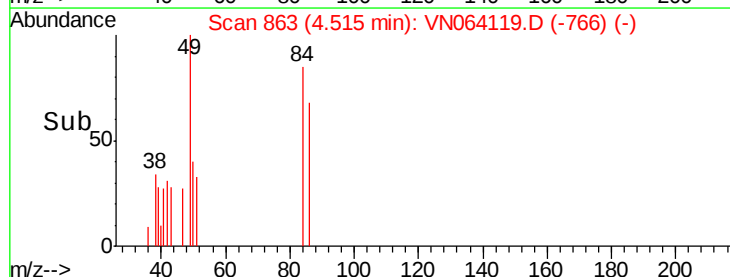
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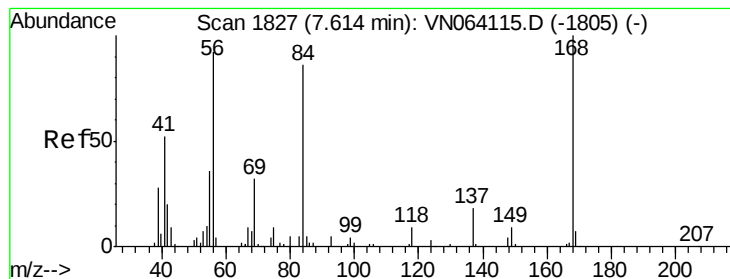
Time-->

4.45

4.50

4.55





#31

Cvclohexane

Concen: 1.490 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN064119.D

Acq: 14 Oct 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

VN1014WBL01

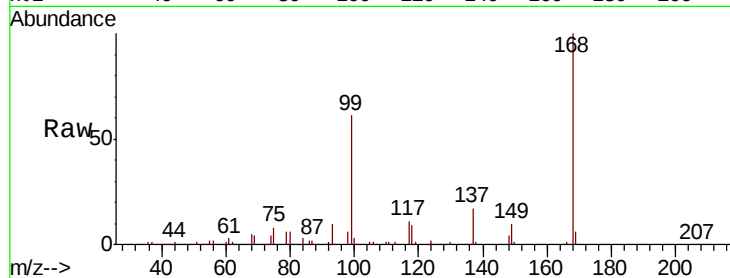
Tot Ion: 56 Resp: 7084

Ion Ratio Lower Upper

56 100

69 157.6 27.8 41.6#

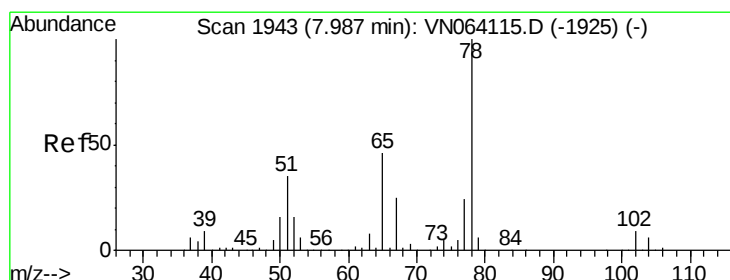
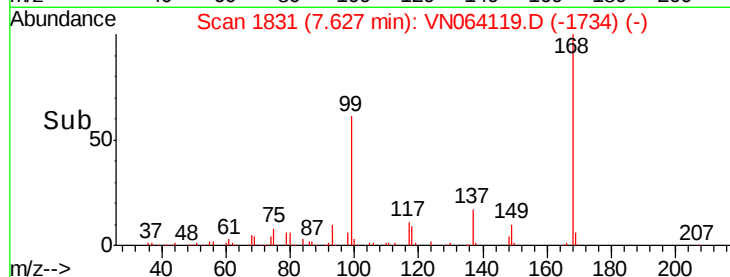
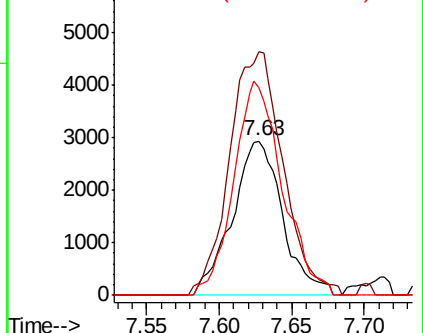
84 134.9 73.2 109.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 52.828 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064119.D

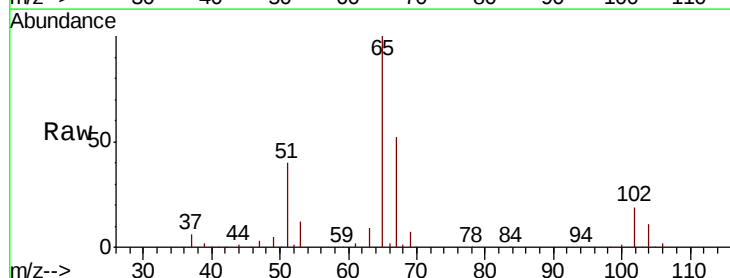
Acq: 14 Oct 2020 18:08

Tgt Ion: 65 Resp: 227270

Ion Ratio Lower Upper

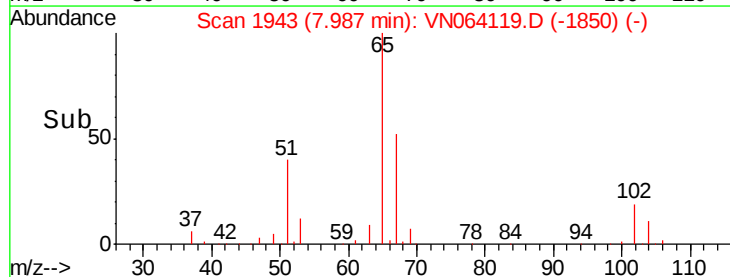
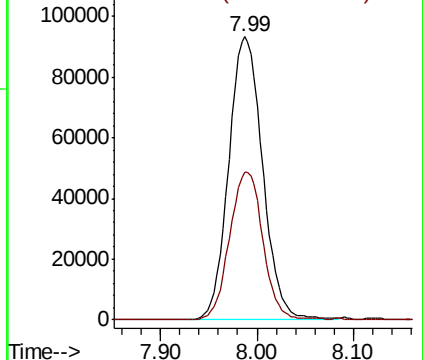
65 100

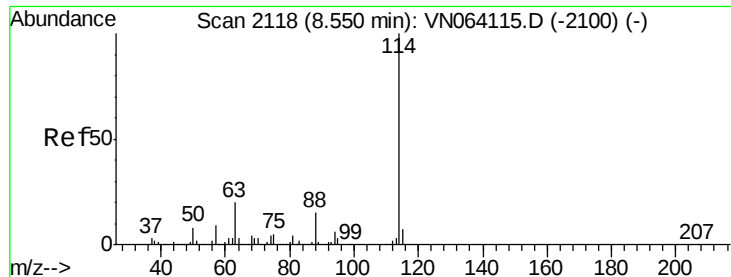
67 50.9 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064119.D

Acq: 14 Oct 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

VN1014WBL01

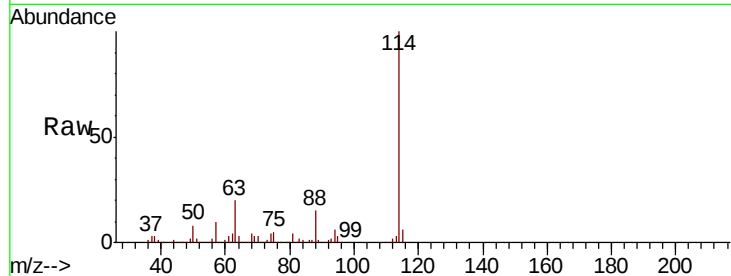
Tot Ion:114 Resp: 566750

Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.0

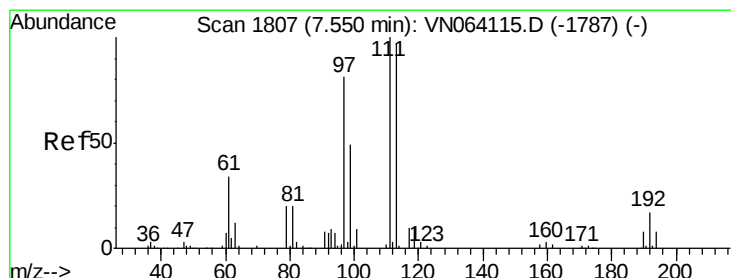
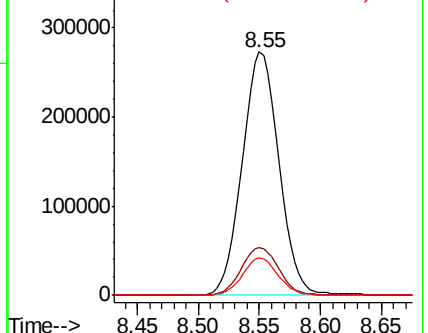
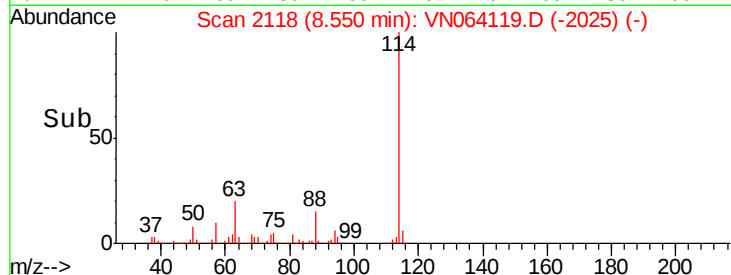
88 15.2 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.668 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064119.D

Acq: 14 Oct 2020 18:08

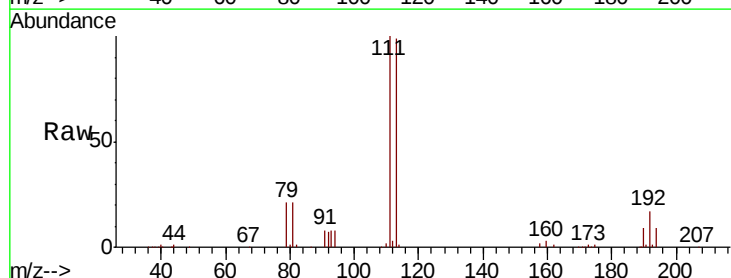
Tgt Ion:113 Resp: 190912

Ion Ratio Lower Upper

113 100

111 103.1 81.9 122.9

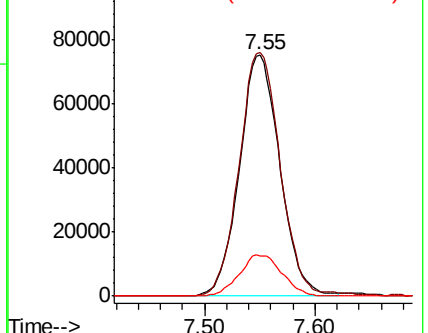
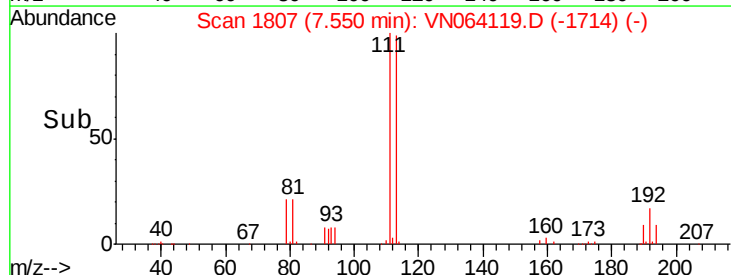
192 18.1 14.3 21.5

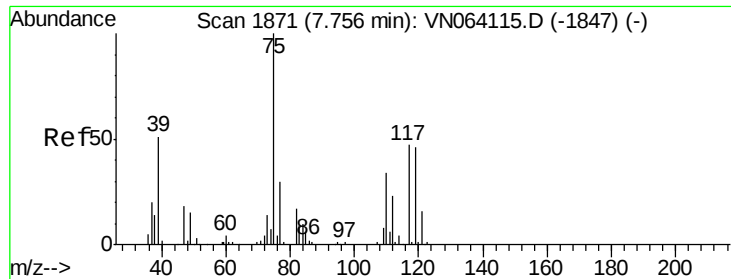


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

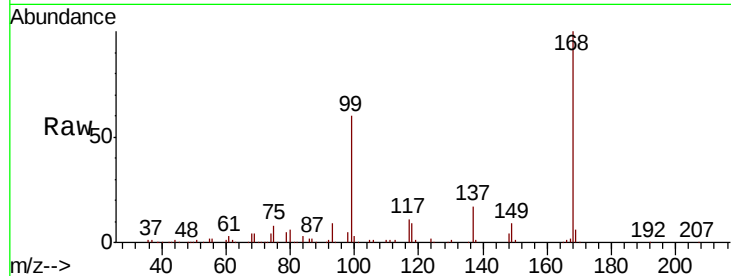




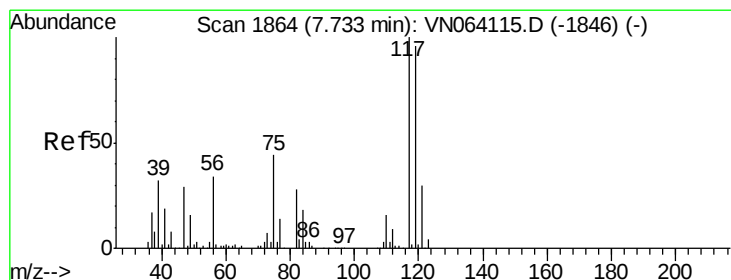
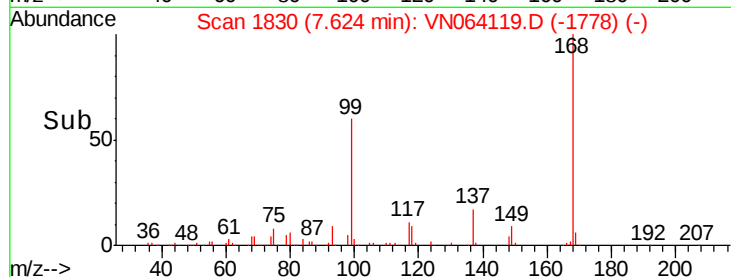
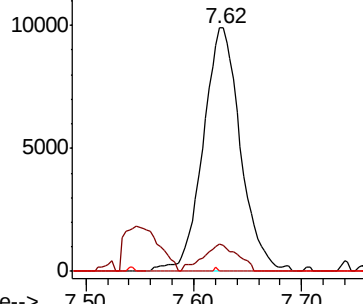
#36
 1,1-Dichloropropene
 Concen: 4.362 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064119.D
 Acq: 14 Oct 2020 18:08

Instrument :
 MSVOA_N
 ClientSampled :
 VN1014WBL01

Tot Ion: 75 Resp: 23827
 Ion Ratio Lower Upper
 75 100
 110 10.3 17.8 53.3#
 77 0.1 24.9 37.3#

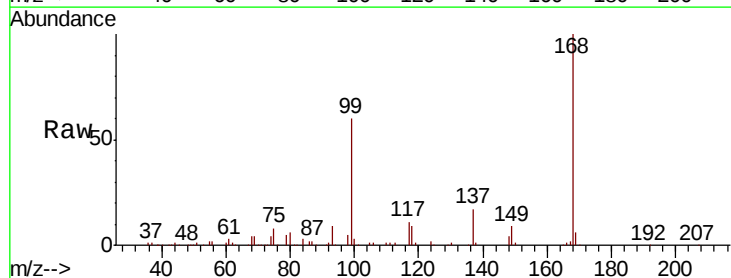


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

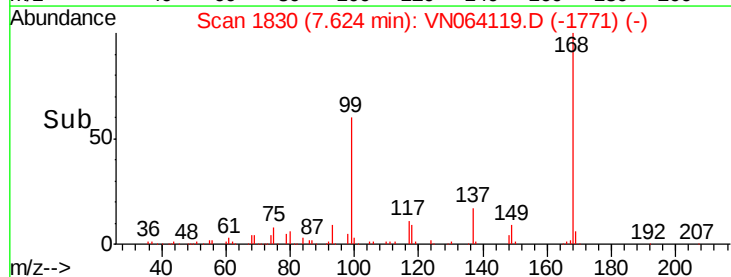
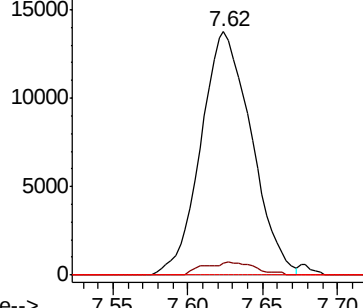


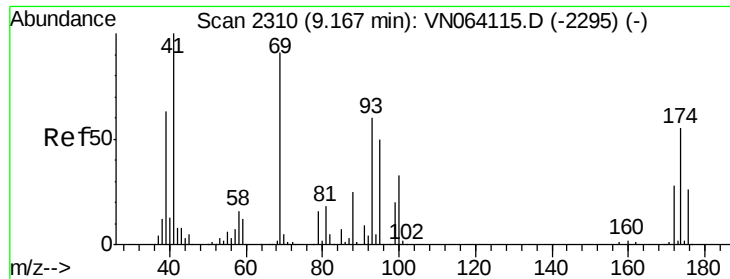
#38
 Carbon Tetrachloride
 Concen: 5.501 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN064119.D
 Acq: 14 Oct 2020 18:08

Tgt Ion: 117 Resp: 32312
 Ion Ratio Lower Upper
 117 100
 119 4.8 77.0 115.4#
 121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

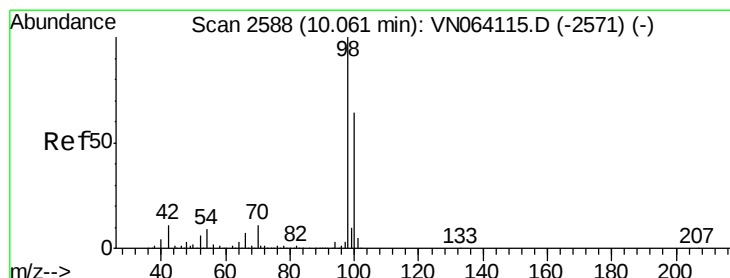
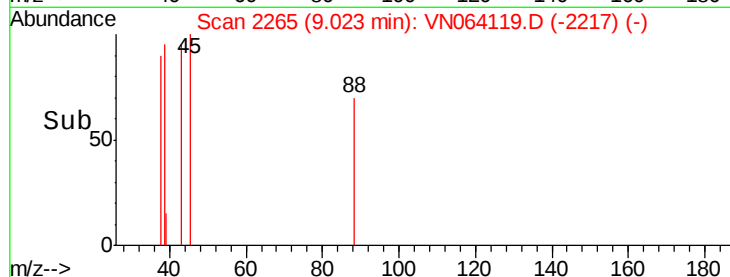
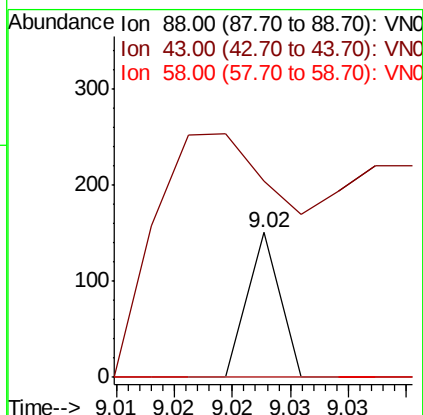
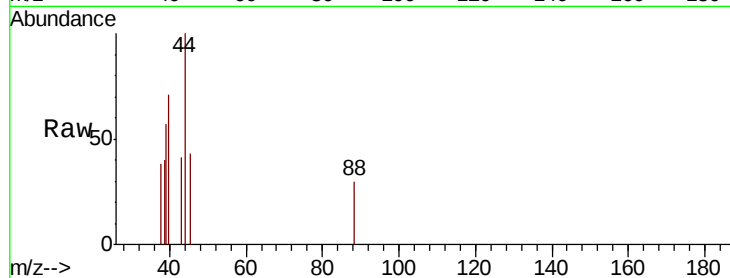




#49
1,4-Dioxane
Concen: 0.514 ug/l
RT: 9.02 min Scan# 2265
Delta R.T. -0.14 min
Lab File: VN064119.D
Acq: 14 Oct 2020 18:08

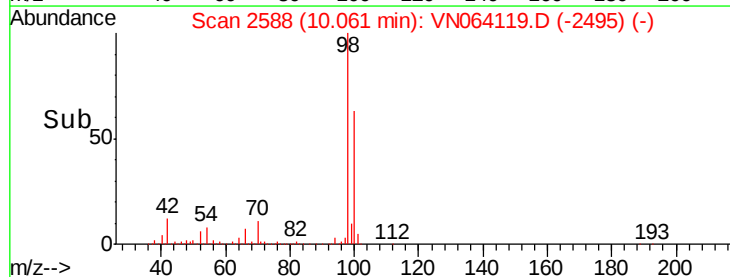
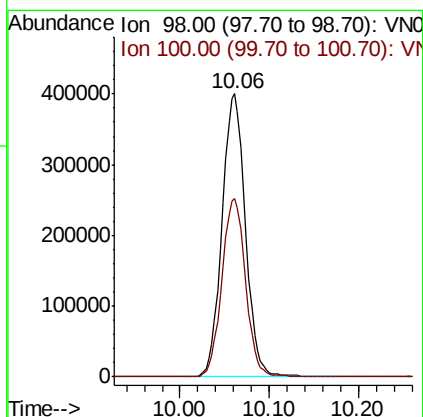
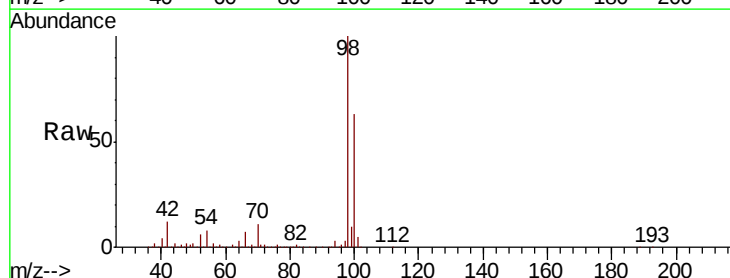
Instrument :
MSVOA_N
ClientSampleId :
VN1014WBL01

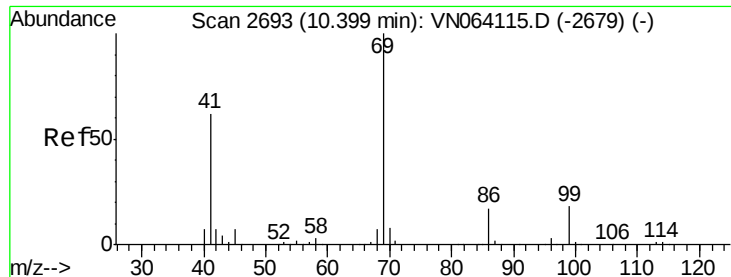
Tot Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 686.2 27.2 40.8#
58 0.0 52.6 78.8#



#50
Toluene-d8
Concen: 49.116 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064119.D
Acq: 14 Oct 2020 18:08

Tgt Ion: 98 Resp: 726975
Ion Ratio Lower Upper
98 100
100 63.7 50.8 76.2





#56

Ethyl methacrylate

Concen: 2.315 ug/l

RT: 10.68 min Scan# 2781

Delta R.T. 0.28 min

Lab File: VN064119.D

Acq: 14 Oct 2020 18:08

Instrument :

MSVOA_N

ClientSampled :

VN1014WBL01

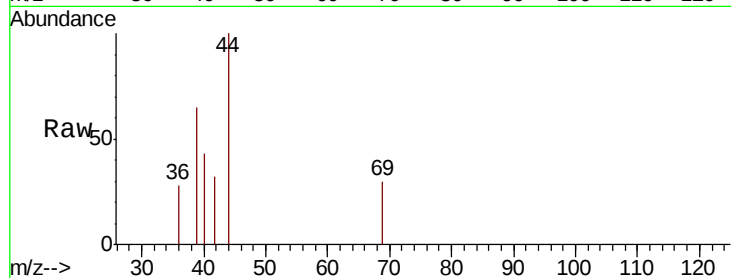
Tot Ion: 69 Resp: 107

Ion Ratio Lower Upper

69 100

41 0.0 49.3 73.9#

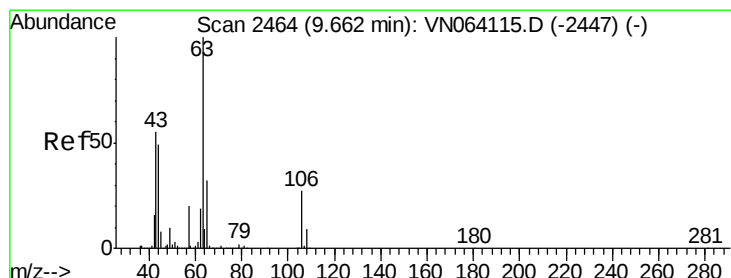
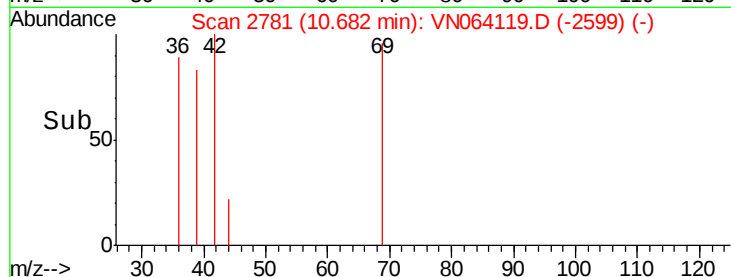
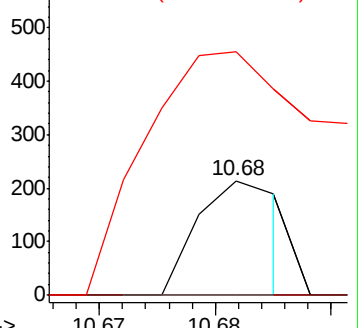
39 333.6 32.7 49.1#



Abundance Ion 69.00 (68.70 to 69.70): VN064119.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN064119.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN064119.D (-2679) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 12.263 ug/l

RT: 9.66 min Scan# 2462

Delta R.T. -0.01 min

Lab File: VN064119.D

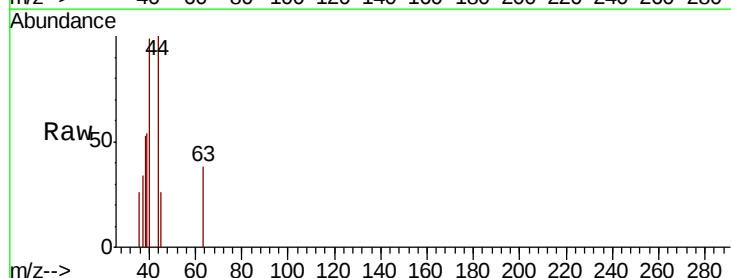
Acq: 14 Oct 2020 18:08

Tgt Ion: 63 Resp: 143

Ion Ratio Lower Upper

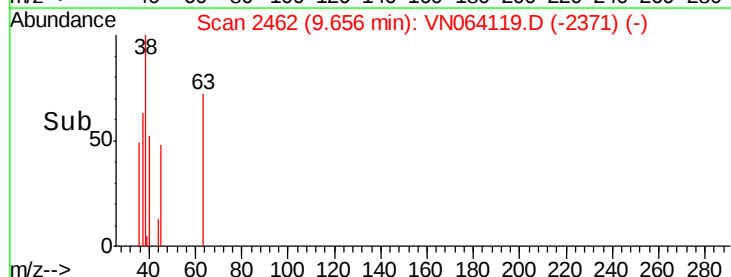
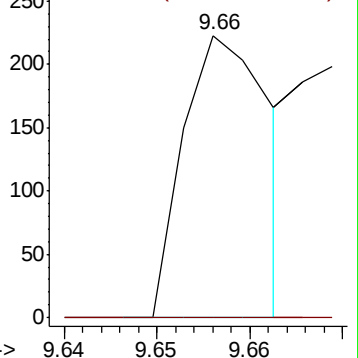
63 100

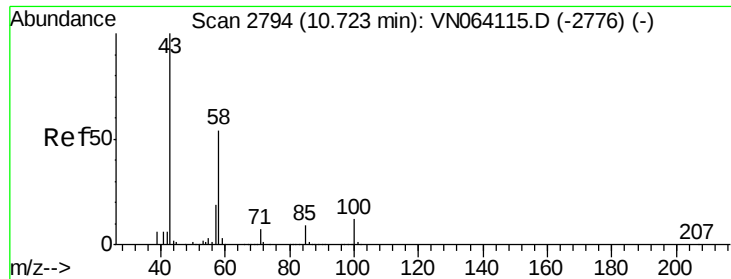
106 0.0 21.8 32.6#



Abundance Ion 62.90 (62.60 to 63.60): VN064119.D (-2371) (-)

Ion 105.90 (105.60 to 106.60): VN064119.D (-2371) (-)

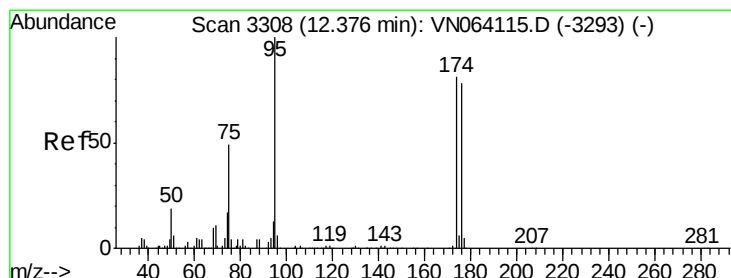
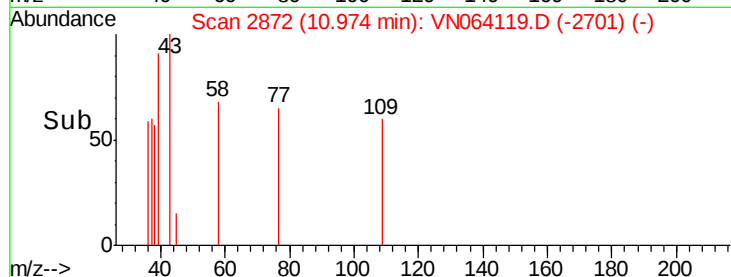
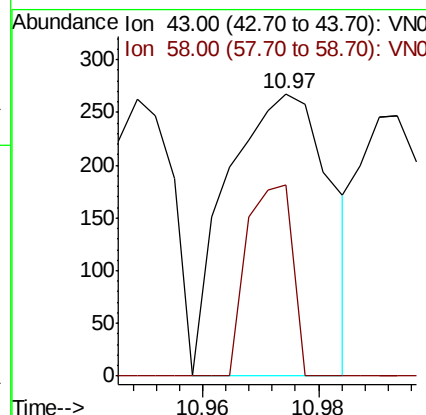
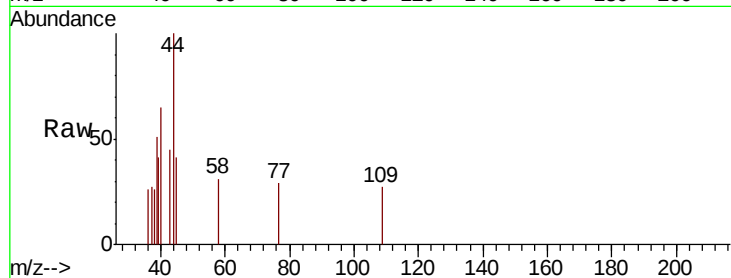




#59
2-Hexanone
Concen: 6.925 ug/l
RT: 10.97 min Scan# 2872
Delta R.T. 0.25 min
Lab File: VN064119.D
Acq: 14 Oct 2020 18:08

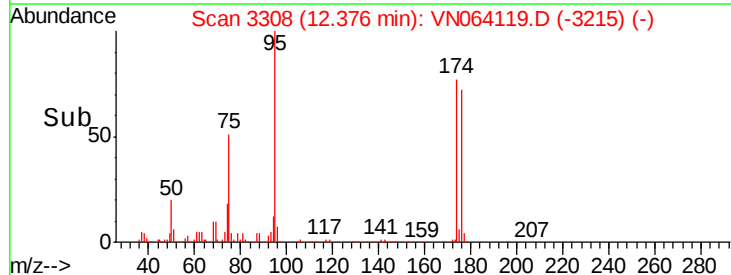
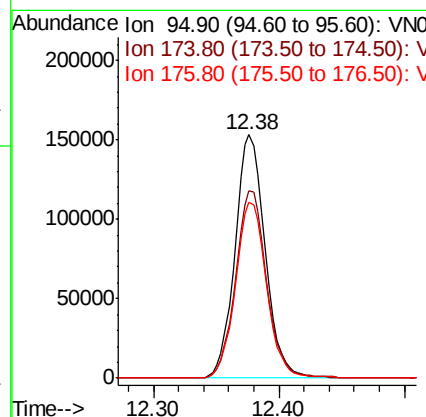
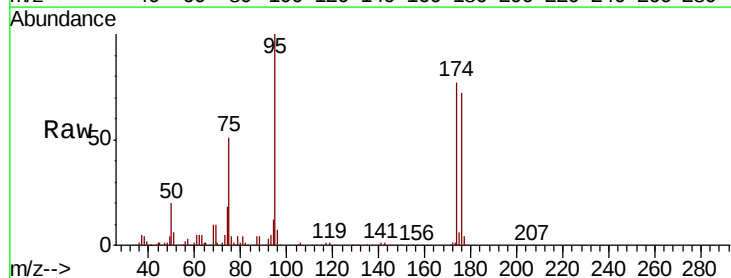
Instrument :
MSVOA_N
ClientSampleId :
VN1014WBL01

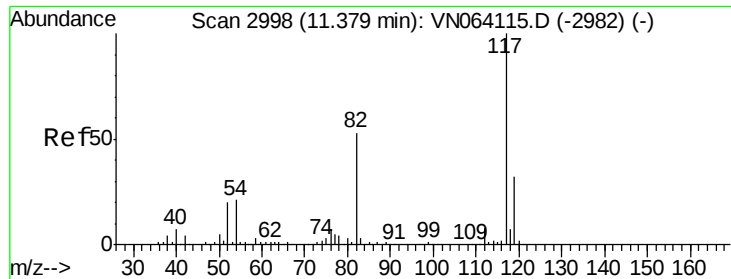
Tot Ion: 43 Resp: 331
Ion Ratio Lower Upper
43 100
58 29.6 27.2 81.6



#62
4-Bromofluorobenzene
Concen: 50.201 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064119.D
Acq: 14 Oct 2020 18:08

Tgt Ion: 95 Resp: 255400
Ion Ratio Lower Upper
95 100
174 79.1 0.0 164.8
176 74.5 0.0 157.8

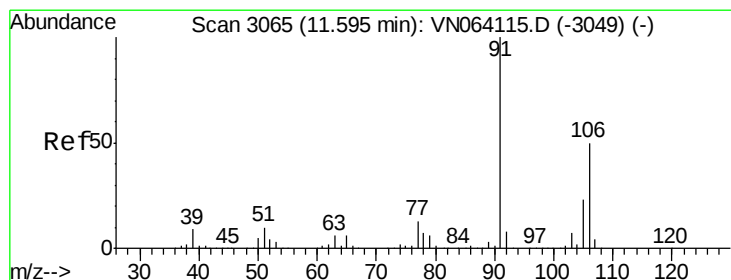
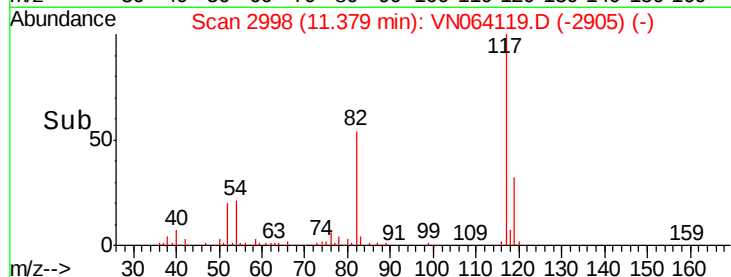
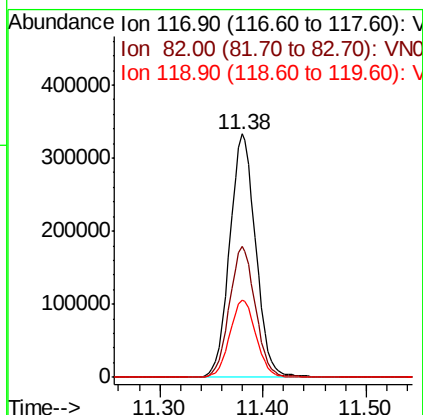
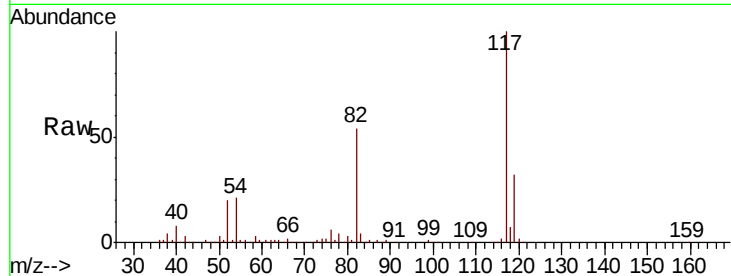




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064119.D
Acq: 14 Oct 2020 18:08

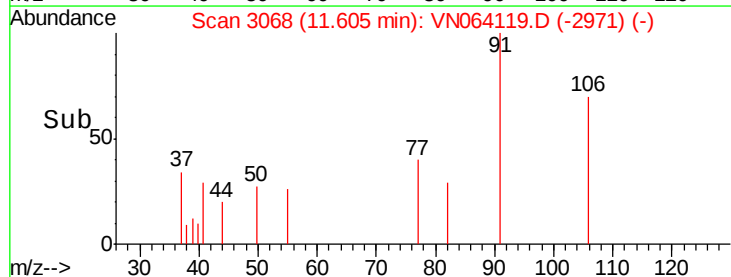
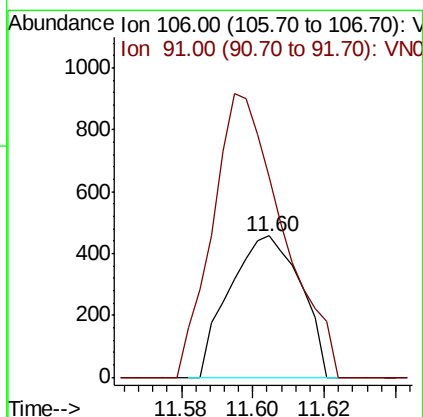
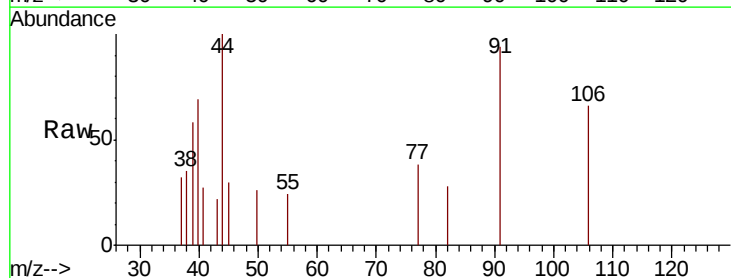
Instrument :
MSVOA_N
ClientSampleId :
VN1014WBL01

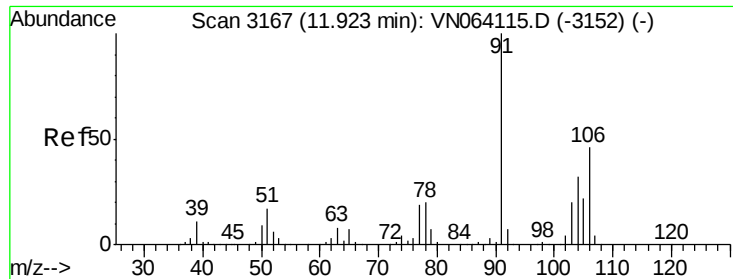
Tot Ion:117 Resp: 585362
Ion Ratio Lower Upper
117 100
82 53.7 42.6 63.8
119 31.8 25.5 38.3



#68
m/p-Xylenes
Concen: 2.264 ug/l
RT: 11.60 min Scan# 3068
Delta R.T. 0.01 min
Lab File: VN064119.D
Acq: 14 Oct 2020 18:08

Tgt Ion:106 Resp: 630
Ion Ratio Lower Upper
106 100
91 197.3 162.1 243.1

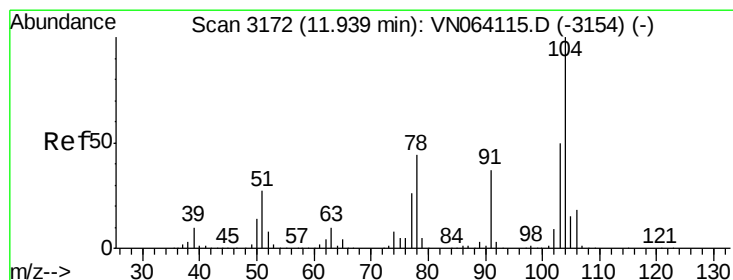
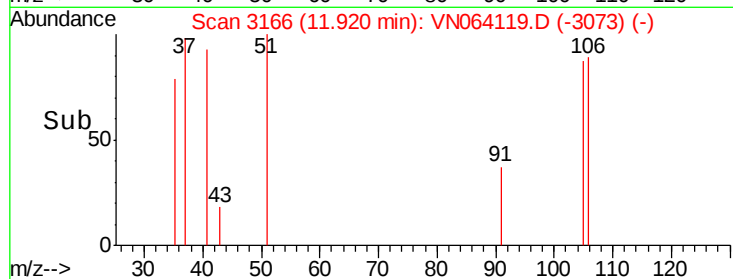
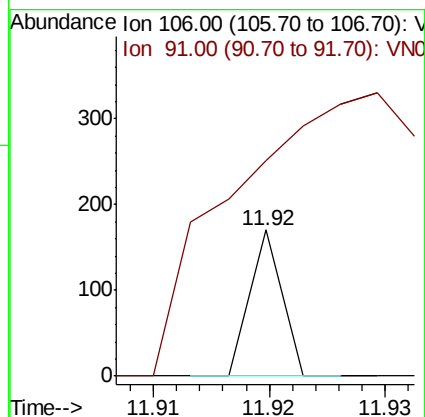
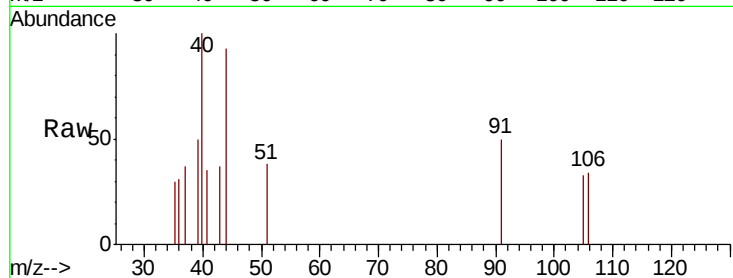




#69
o-Xylene
Concen: 1.587 ug/l
RT: 11.92 min Scan# 3166
Delta R.T. -0.00 min
Lab File: VN064119.D
Acq: 14 Oct 2020 18:08

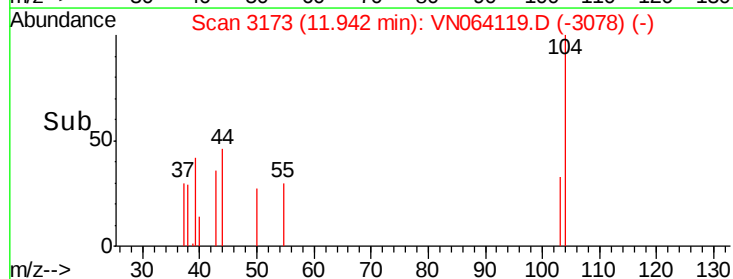
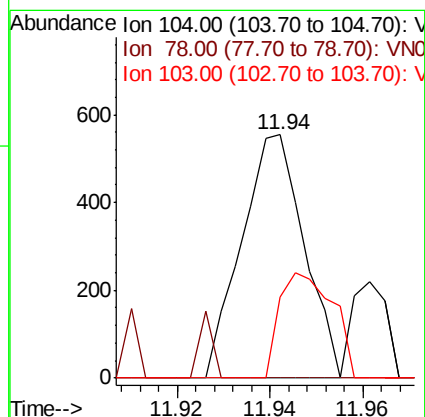
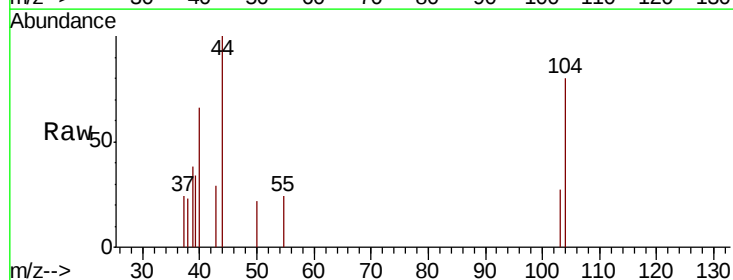
Instrument :
MSVOA_N
ClientSampled :
VN1014WBL01

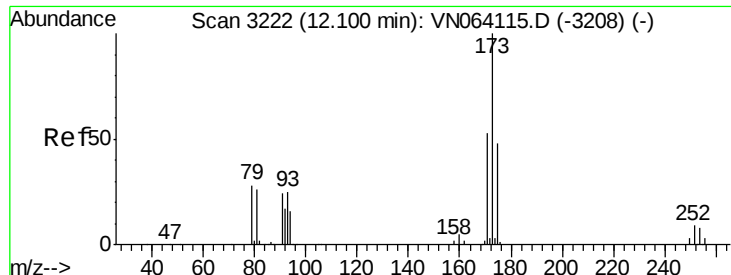
Tot Ion:106 Resp: 33
Ion Ratio Lower Upper
106 100
91 1181.8 107.6 322.8#



#70
Styrene
Concen: 2.072 ug/l
RT: 11.94 min Scan# 3173
Delta R.T. 0.00 min
Lab File: VN064119.D
Acq: 14 Oct 2020 18:08

Tgt Ion:104 Resp: 520
Ion Ratio Lower Upper
104 100
78 5.6 39.7 59.5#
103 36.9 44.2 66.2#





#71

Bromoform

Concen: 2.790 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN064119.D

Acq: 14 Oct 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

VN1014WBL01

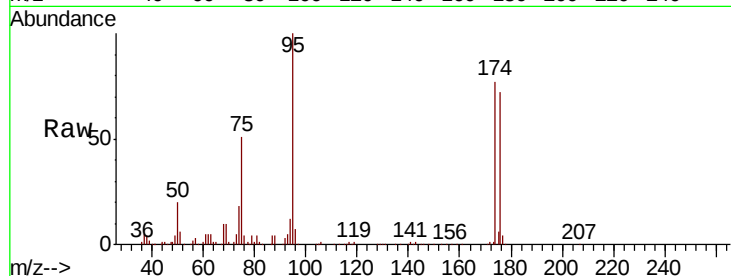
Tot Ion:173 Resp: 2270

Ion Ratio Lower Upper

173 100

175 534.3 23.4 70.2#

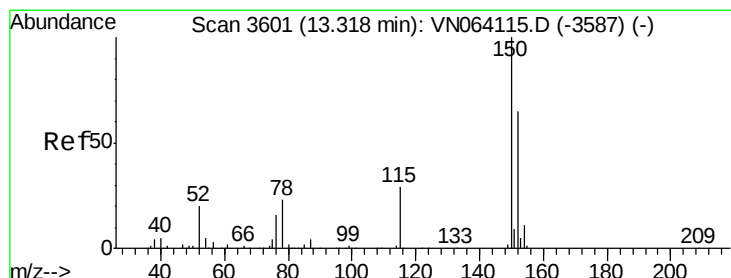
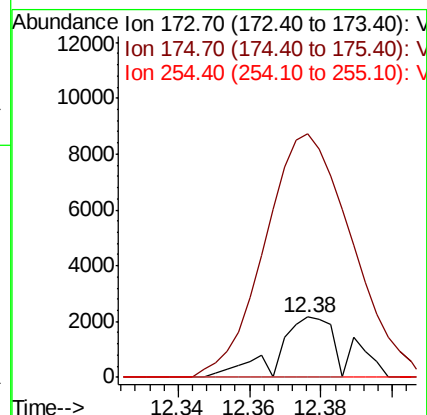
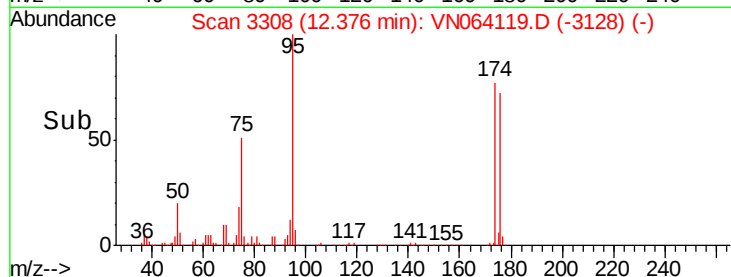
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064119.D

Acq: 14 Oct 2020 18:08

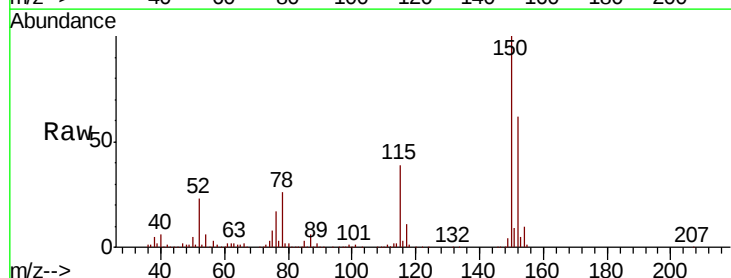
Tgt Ion:152 Resp: 218102

Ion Ratio Lower Upper

152 100

115 60.7 29.3 87.8

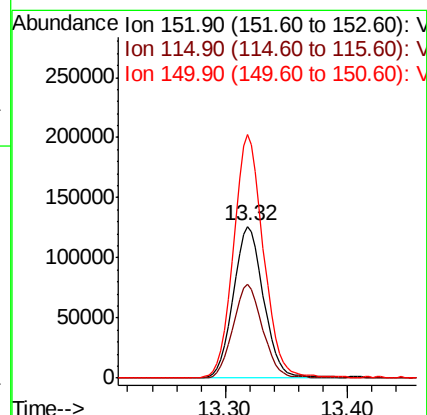
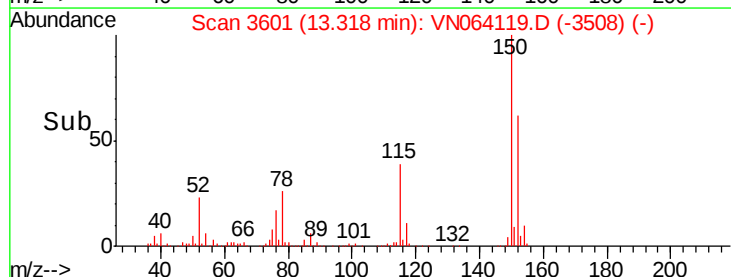
150 158.8 0.0 346.0

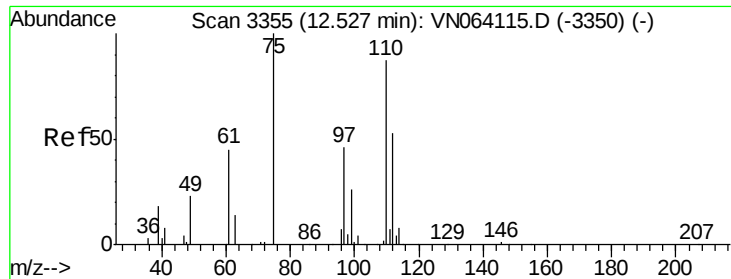


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

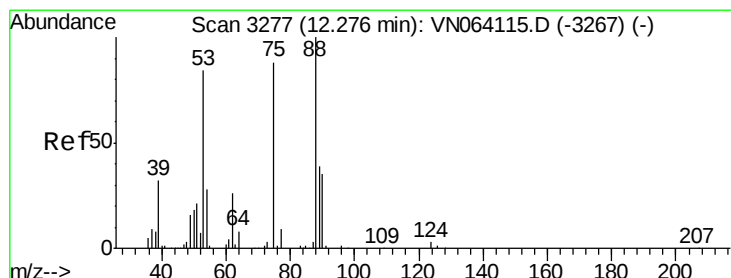
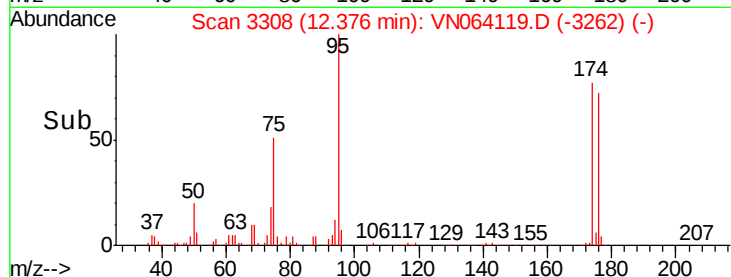
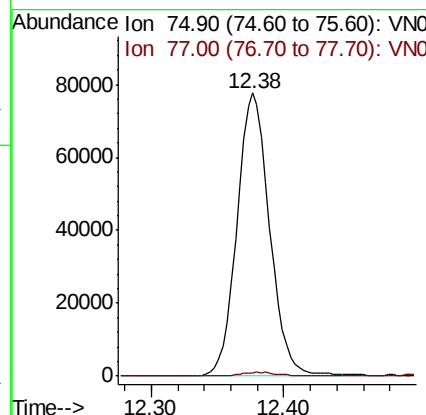
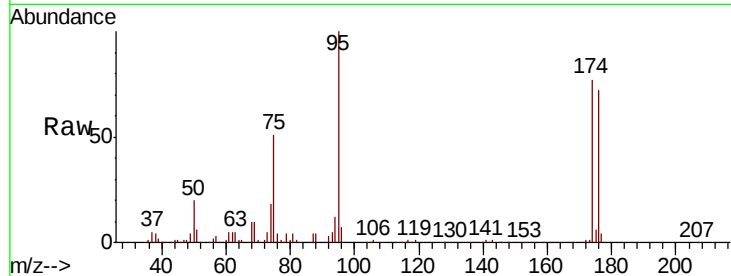




#76
 1,2,3-Trichloropropane
 Concen: 25.882 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064119.D
 Acq: 14 Oct 2020 18:08

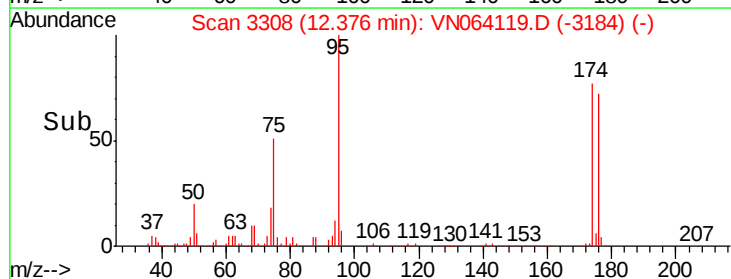
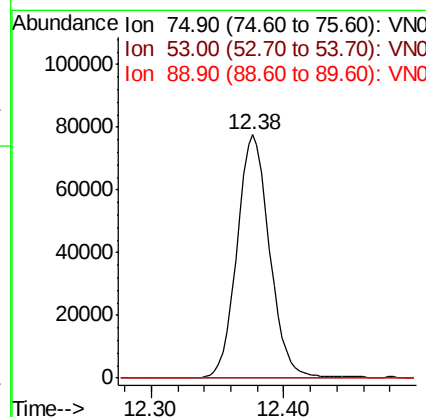
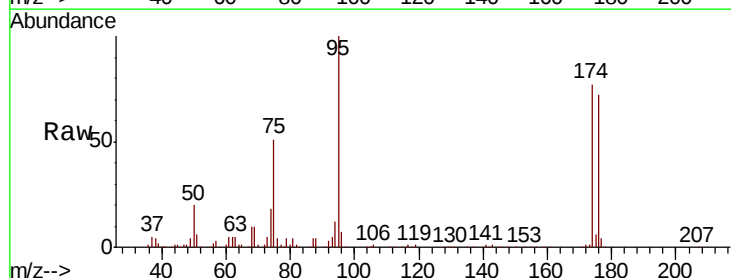
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1014WBL01

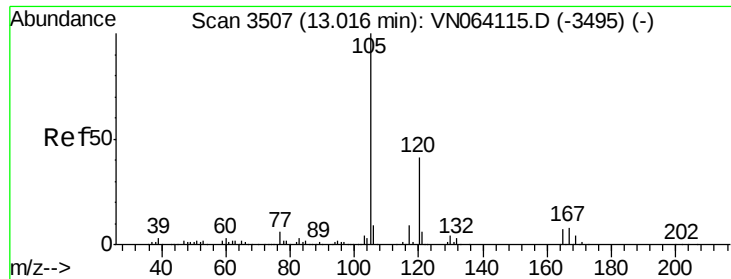
Tot Ion: 75 Resp: 132435
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 79.075 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064119.D
 Acq: 14 Oct 2020 18:08

Tgt Ion: 75 Resp: 132435
 Ion Ratio Lower Upper
 75 100
 53 0.1 75.7 113.5#
 89 0.0 36.6 55.0#

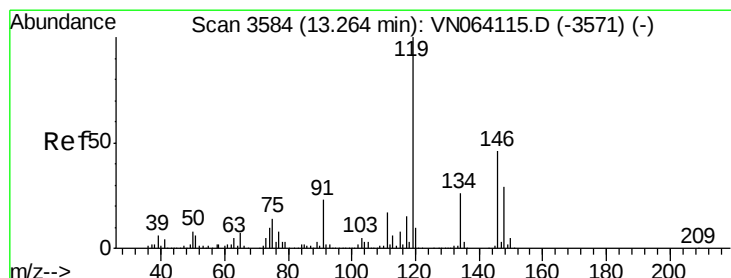
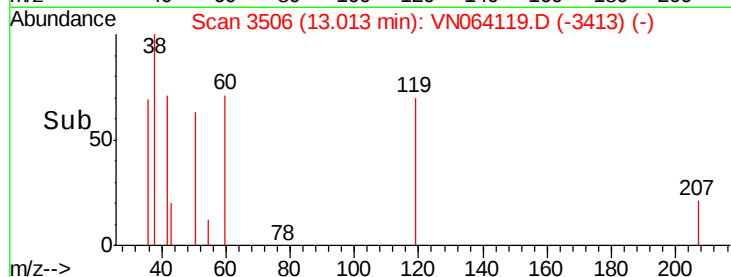
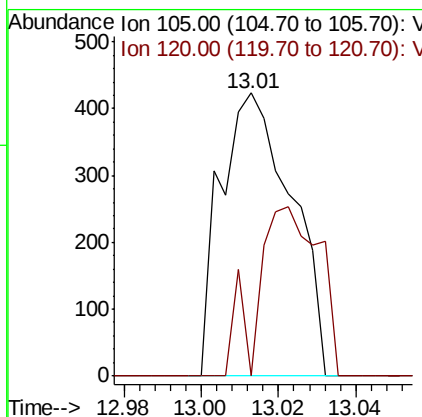
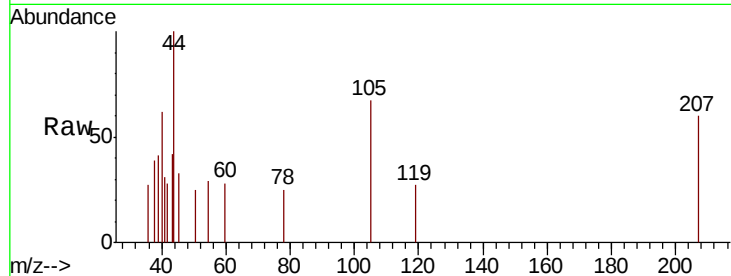




#84
 1,2,4-Trimethylbenzene
 Concen: 0.225 ug/l
 RT: 13.01 min Scan# 3506
 Delta R.T. -0.00 min
 Lab File: VN064119.D
 Acq: 14 Oct 2020 18:08

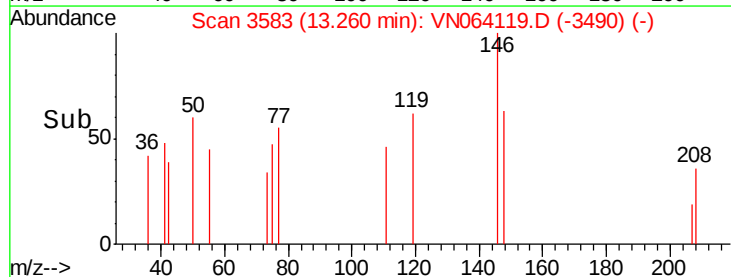
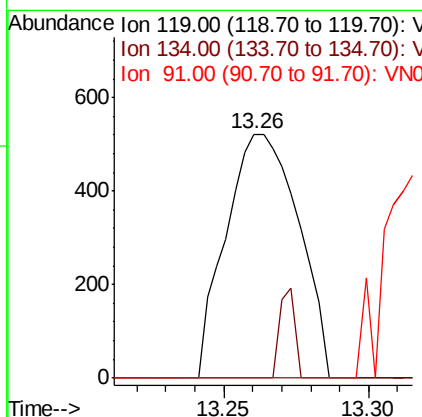
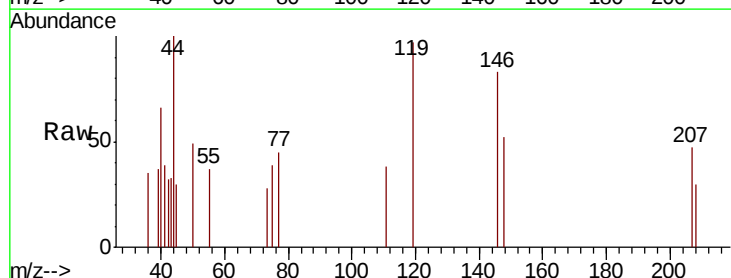
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1014WBL01

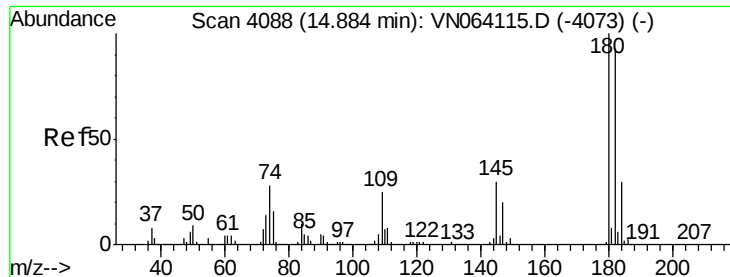
Tot Ion:105 Resp: 540
 Ion Ratio Lower Upper
 105 100
 120 52.2 22.8 68.4



#86
 p-Isopropyltoluene
 Concen: 0.732 ug/l
 RT: 13.26 min Scan# 3583
 Delta R.T. -0.00 min
 Lab File: VN064119.D
 Acq: 14 Oct 2020 18:08

Tgt Ion:119 Resp: 905
 Ion Ratio Lower Upper
 119 100
 134 7.6 13.2 39.5#
 91 0.0 12.0 36.1#

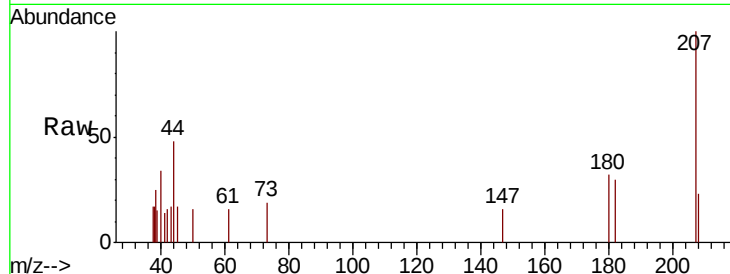




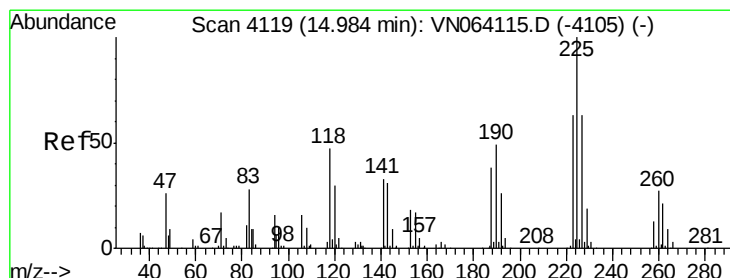
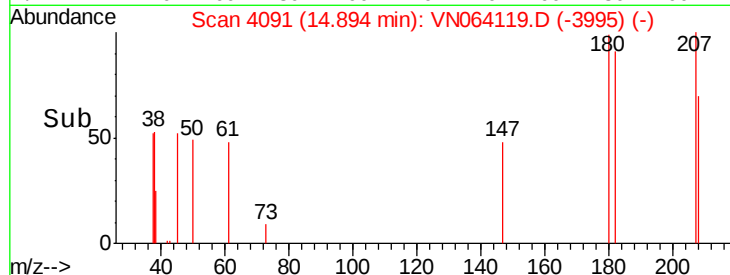
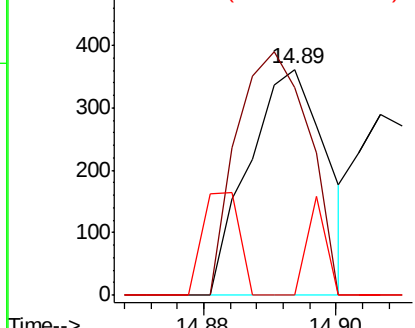
#93
 1,2,4-Trichlorobenzene
 Concen: 3.259 ug/l
 RT: 14.89 min Scan# 4091
 Delta R.T. 0.01 min
 Lab File: VN064119.D
 Acq: 14 Oct 2020 18:08

Instrument :
 MSVOA_N
 ClientSampled :
 VN1014WBL01

Tot Ion:180 Resp: 293
 Ion Ratio Lower Upper
 180 100
 182 101.4 45.8 137.4
 145 10.2 15.4 46.1#

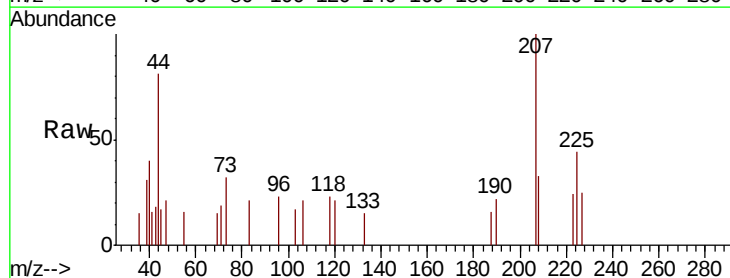


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

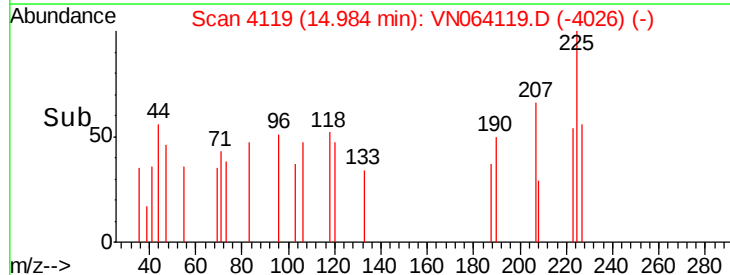
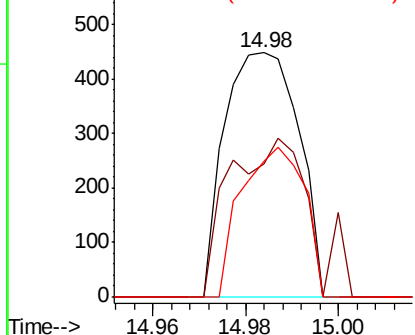


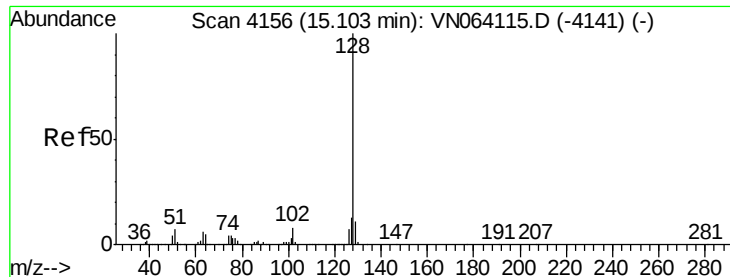
#94
 Hexachlorobutadiene
 Concen: 0.293 ug/l
 RT: 14.98 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN064119.D
 Acq: 14 Oct 2020 18:08

Tgt Ion:225 Resp: 496
 Ion Ratio Lower Upper
 225 100
 223 70.2 32.3 96.9
 227 52.2 31.6 94.8



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.951 ug/l

RT: 15.13 min Scan# 4163

Delta R.T. 0.02 min

Lab File: VN064119.D

Acq: 14 Oct 2020 18:08

Instrument :

MSVOA_N

ClientSampled :

VN1014WBL01

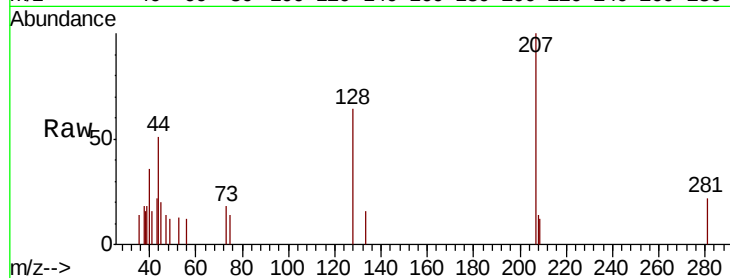
Tot Ion:128 Resp: 1776

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

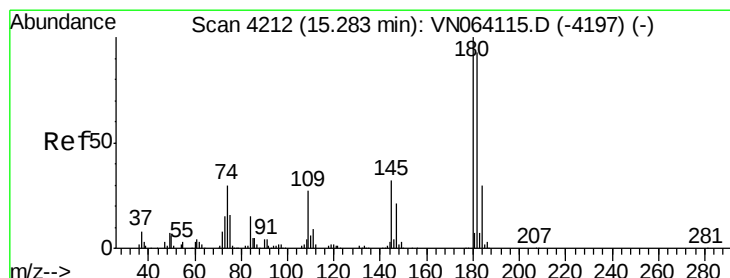
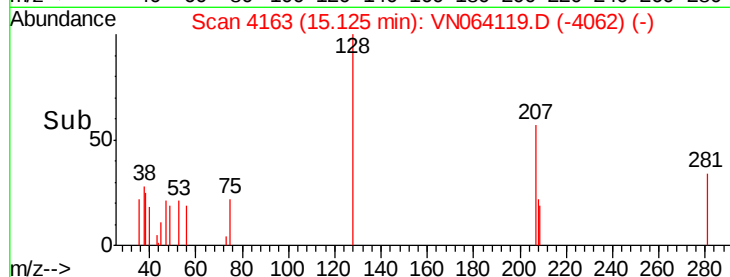
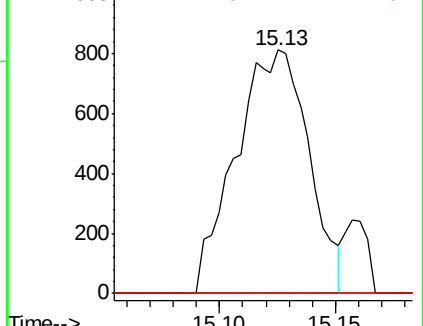
129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.952 ug/l

RT: 15.28 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN064119.D

Acq: 14 Oct 2020 18:08

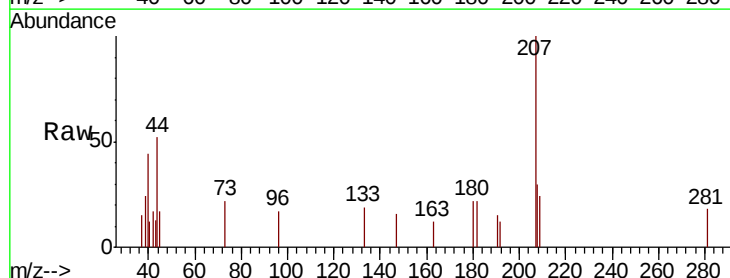
Tgt Ion:180 Resp: 523

Ion Ratio Lower Upper

180 100

182 107.1 46.6 139.8

145 11.5 16.1 48.2#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

